CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2014-15

Date: 28.05.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of RCC drain and covering slab and improvements to roads at Pillegowda Layout in Ward No.10 (Change of place: Construction of RCC drain covering slab and improvements to roads at Hanuman layout in Ward No.10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VP/661/2014-15 Dated: 26.05.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2014-15 : 28.05.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of RCC drain and covering slab and improvements to roads at Pillegowda Layout in Ward No.10 (Change of place: Construction of RCC drain covering slab and improvements to roads at Hanuman layout in Ward No.10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/661/2014-15 Dated: 26.05.2014

Date of Testing : 28.05.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	80	4.00	4.00	96.0	90-100
2.36	158	7.90	11.90	88.1	75-100
1.18	475	23.75	35.65	64.4	55-90
600 Micron	430	21.50	57.15	42.9	35-59
300 Micron	475	23.75	80.90	19.1	8-30
150 Micron	254	12.70	93.60	6.4	0-10

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Job No.: CTCE/BBMP/W.No.10/KRIDL/AGG/2014-15 : 28.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of RCC drain and covering slab and improvements to roads at Pillegowda Layout in Ward No.10 (Change of place: Construction of RCC drain covering slab and improvements to roads at Hanuman layout in Ward No.10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/661/2014-15 Dated: 26.05.2014

Date of Testing : 28.05.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	165	3.30	3.3	96.70	95-100
10	3150	63.00	66.3	33.70	25-55
4.75	1358	27.16	93.5	6.54	0-10

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2014-15 28.05.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Construction of RCC drain and covering slab and improvements to roads at Pillegowda Layout in Ward No.10 (Change of place: Construction of RCC drain covering slab and improvements to roads at Hanuman layout in Ward No.10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VP/661/2014-15 Dated: 26.05.2014
Date of Test	:	28.05.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.10	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2014-15 17.06.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Construction of RCC drain and covering slab and improvements to roads at Pillegowda Layout in Ward No.10 (Change of place: Construction of RCC drain covering slab and improvements to roads at Hanuman layout in Ward No.10, (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/661/2014-15 Dated: 26.05.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2014	17.06.2014	8.145	352.3	15.66
2	10.06.2014	17.06.2014	8.259	361.2	16.05
3	10.06.2014	17.06.2014	8.362	365.4	16.24

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